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Welcome

Thank you for selecting the Accu-Chek® Advantage System. Designed for ease of use, this system was produced in close association with diabetes health-care professionals, hospitals and, most importantly, people with diabetes.

The lightweight, portable meter provides accurate results in seconds. Along with the Accu-Chek Advantage Test Strips, the meter measures your blood glucose level and displays your result. It's that simple.

Before using your Accu-Chek Advantage Meter or Accu-Chek® Softclix Lancing Device for the first time, please refer to the Quick Reference Guide included in this pack. Should you require further information, please study this user's manual. Please forward your completed warranty card immediately to Roche Diagnostics.

If you have any questions or inquiries, please call our Diabetes Care Info-Line:

MONTREAL: (450) 686-7100

TOLL-FREE: 1 800 363-7949

You can also call these numbers to request information in other languages.

Inside Pages: All prints black thru-out.

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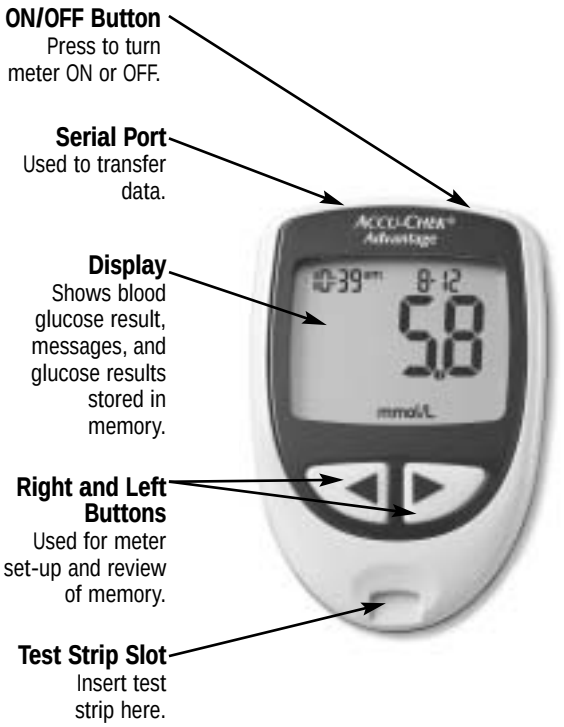
About the Accu-Chek® Advantage Meter



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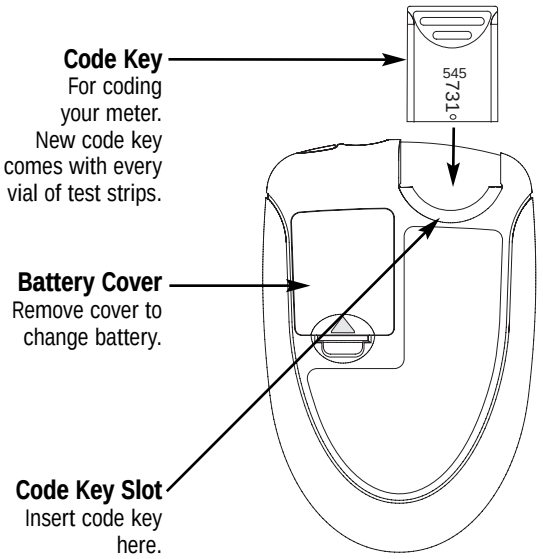
About the Accu-Chek Advantage Meter


Code Key
For coding your meter. New code key comes with every vial of test strips.
Battery Cover
Remove cover to change battery.
Code Key Slot
Insert code key here.
545
731

Special Features

Your meter is designed to store information important to you and your healthcare professional. The memory will store 480 readings.

Along with these readings, the meter can store additional important information. The hypo flag allows you to define your hypoglycemic level and receive a reminder whenever you obtain a blood sugar result below this level. See page 8 for additional information.

The meter also has a flag, or asterisk (*), that you can save in the memory with your blood sugar result. See page 16 for additional information on this feature.

The meter will also calculate 7, 14, and 30-day averages. You do not have to set the time and date for the meter to give you average calculations. See page 20 for specific information on averages.

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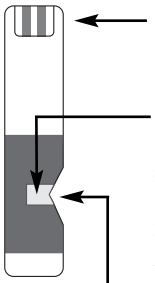
About the Accu-Chek® Advantage Test Strip



Electrodes
Insert strip with silver-colored bars up and toward the meter.

Yellow Window

Do not apply blood on the top of the test strip.

Before Applying Blood –
This window should be completely yellow.

After Applying Blood –
This window should be completely filled with the blood drop.

Note: Any area of the strip can be touched and the glucose reading will not be affected.

Comfort Curve

Touch drop of blood here, to the edge of the strip.

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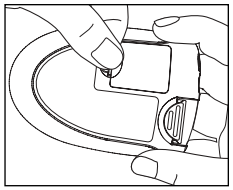
Inserting the Battery

Your meter is shipped with one 3-volt battery type 2032 (CR 2032, DL 2032, or equivalent) that needs to be inserted before testing. The battery that comes with your meter can be found in the mesh pocket of your carrying case. Battery life will vary depending on usage, so always keep a spare on hand.

The meter saves battery power by automatically turning off after 90 seconds of non-use or 5 seconds after taking a strip out of the meter following a test. If the meter does automatically shut off, all tests in memory are saved.

Note: After changing the battery, your meter will prompt you to verify the time and date immediately after the battery is inserted. This occurs only if the time and date had been set previously on your meter.

1. Push the recessed plastic tab of the battery compartment forward (toward the arrow) to flip open the battery door.



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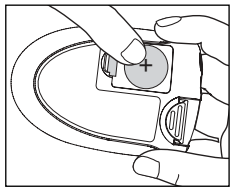
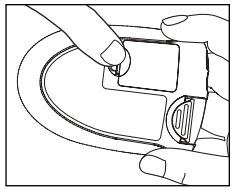
2. Insert the 3-volt battery (type 2032) into the compartment with "+" side facing you.

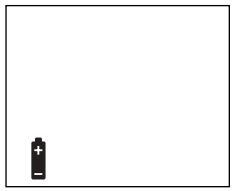


3. Snap battery cover back in place. If time and date feature was set previously, the meter will turn on automatically. Confirm that the time and date are set correctly. If time and date have not been set previously, wait 5 seconds, then turn meter ON. The meter beeps if the beeper is turned on.



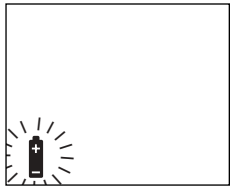
Battery Symbol on the Display

When a battery symbol appears on the display, your battery is weak and has only enough power to run a few more tests. Although the meter will still provide accurate results, you need to replace the battery as soon as possible.



Battery is low.

If a flashing battery symbol appears on the display, the battery is nearly dead.



Battery must be replaced to continue testing.

After changing the battery, your meter will prompt you to verify the time and date immediately after the battery is inserted, if time and date had previously been set. See ***Setting the Time, Date and Year*** on page 6.

Note: To retain the correct time and date settings, you will need to replace the battery before it is completely dead.

Please dispose of meter battery according to your local ordinances.

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Setting the Beeper, Time, Date, Year, and Hypo Flag

Turning the Beeper On or Off

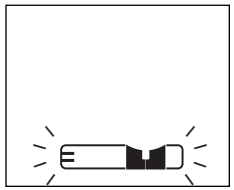
Does the beeper have to be turned on?

No, it is an optional feature. Turning the beeper on or off does not affect the test results. If the beeper is turned off, beeps that occur due to errors will still sound.

The meter is set to beep when:
- A strip is inserted
- Blood or control solution is applied to strip
- A result is displayed
- An error occurs while testing
- Buttons are pushed
- Battery is installed

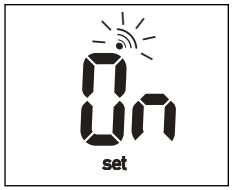
If you do not want the beeper on, turn it off by following these steps:

1. Press and release the ON/OFF button to turn the meter ON.
2. Wait until the strip icon flashes or code and "---" appear before proceeding to step 3.



3. Press and hold down the ON/OFF button until "set" appears at the bottom of the screen. Release the ON/OFF button.

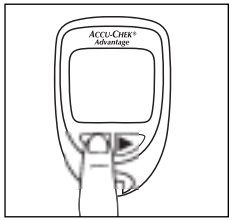
   "On," "set," and the flashing beeper symbol appear on the display. The beeper is now on.

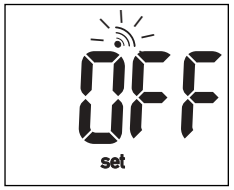


Note: You may leave the set mode at any time by pressing and holding the ON/OFF button. The settings you have entered will be saved.

4. Press and release the right or left arrow button.

   "OFF," "set," and the beeper symbol appear on the display. The beeper is now off. To turn beeper back on, simply press and release the right or left arrow button again.





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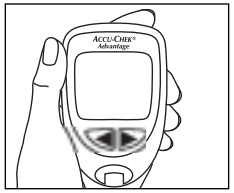
5. Press and hold down the ON/OFF button until strip icon is seen flashing or code and "---" appear to leave this function.



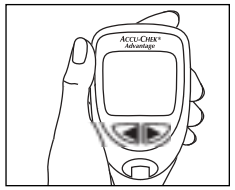
Setting the Time, Date and Year

Do I have to set the time and date?

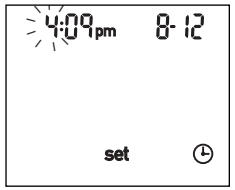
Time and date should be set prior to testing if you plan to download the results into software or if you plan to review your memory to check when a test was done.

To set the time, date and year:

1. Press and release the ON/OFF button to turn the meter ON.



2. Wait until the strip icon flashes or code and "---" appear before proceeding to step 3.
3. Press and hold down the ON/OFF button until "set" appears at the bottom of the screen. Release the ON/OFF button.



4. Press and release the ON/OFF button to confirm beeper setting and move to set the time.
5. Press and release the ON/OFF button. The hour display flashes.
6. Press and release the right or left arrow button until the correct hour is displayed.
7. Press and release the ON/OFF button. The minute display flashes.
8. Press and release the right or left arrow button until the correct minute is displayed.
9. Press and release the ON/OFF button. The month display flashes.
10. Press and release the right or left arrow button until the correct month is displayed.
11. Press and release the ON/OFF button. The day display flashes.
12. Press and release the right or left arrow button until the correct day is displayed.
13. Press and release the ON/OFF button. The year display flashes.
14. Press and release the right or left arrow button until the correct year is displayed.
15. To leave this function, press and hold down the ON/OFF button until the flashing strip symbol or code and "---" are displayed.

Note: You may leave the set mode at any time by pressing and holding the ON/OFF button. The settings you have entered will be saved.

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Setting the Hypo Flag

The hypo flag allows you to define your hypoglycemic level and receive a reminder whenever you obtain a blood sugar result below this level. You can set the hypo indicator level to any number between 3.3 and 4.4 mmol/L. **Important Note:** Consult with your healthcare professional to set the hypo marker to compliment your therapy. Do not use the hypo marker as the only indicator of hypoglycemia. Rely upon your symptoms and directions from your healthcare professional.

To set the hypo flag:

1. Press the ON/OFF button to turn the meter on.
2. Wait until the strip icon or code and "---" flash before proceeding to step 3.
3. Press and hold down the ON/OFF button until "set" appears at the bottom of the screen. Release the ON/OFF button.
4. Repeatedly press and release the ON/OFF button until "hypo" flashes and "OFF" and "set" appear on the display.

Note: The meter is factory set with the hypo flag in the off position.

5. Press and release the right or left arrow button to turn ON the hypo flag.
6. Briefly press and release the ON/OFF button. "Hypo" flashes, and the current hypo indicator setting, "set," and "mmol/L" appear on the display.

7. Press and release the right or left arrow button to adjust the hypo flag setting.
8. To leave this function, press and hold down the ON/OFF button until the flashing strip symbol or code and "---" are displayed.

Coding Your Meter

What is coding, and when is it necessary?

Before you use your meter for the first time and every time you open a new box of test strips, you need to set the meter to "match" the strips. This is called coding.

To ensure accuracy of your blood glucose monitoring system, you must change your code key with each new box of test strips. Each code key provides your meter with the specific information that your meter needs to accurately measure your blood glucose. Do not use code keys with your Accu-Chek Advantage Meter from any test strip manufacturer or system other than the Accu-Chek Advantage System from Roche Diagnostics. Use of other manufacturers' code keys may result in erroneous results with your system.

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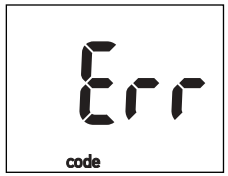
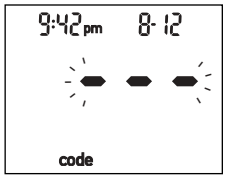
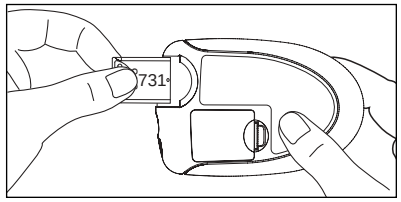
A code key is properly inserted when it snaps into place. You will need to insert a new code key:

- Whenever you open a new box of strips.
- Whenever either one of these displays appear:

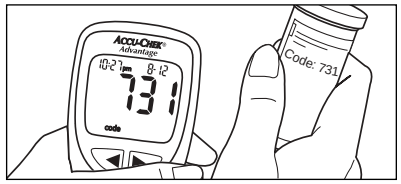




1. Make sure meter is turned off. Turn meter over so you are looking at the back. Remove old code key if one is installed.
2. Insert new code key until it snaps into place.



3. Turn meter ON. A 3-digit code number appears. This number must match the code number on your vial of test strips. If it does not, repeat steps 1–3.



Testing

Gathering Supplies

To begin testing, you will need the following items:

- **Accu-Chek® Advantage Meter**
- **Accu-Chek® Advantage Test Strips**
- **Accu-Chek® Softclix Lancet**
- **Accu-Chek® Softclix Lancing Device**
- **Accu-Chek® Softclix Pro Lancing Device (For Healthcare Professionals)**

Performing a Test

1. Wash your hands in warm, soapy water. Rinse well and dry completely. Warming fingers can increase blood flow.
2. Load lancet device according to manufacturer's instructions. See ***Addendum A***, page 48.

⚠ **To reduce the risk of infection, change lancet with each test.**

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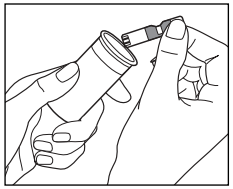
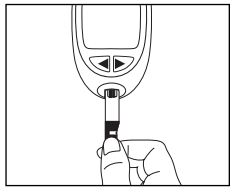
3. Remove new test strip from vial. **Be sure to tightly replace vial cap after removing test strip.**

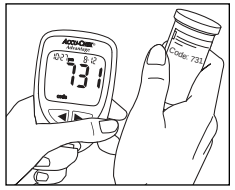


4. Within 3 minutes, insert test strip into test strip slot with silver-colored bars facing up and toward the meter.

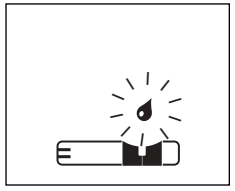


The meter turns on automatically.

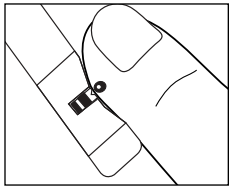
Check that the code number on the meter matches the code on the vial of test strips you are using.



When the blood drop symbol flashes, you are ready to perform a test.



5. Let your arm hang down at your side briefly to allow blood to flow to your fingertips.
6. Grasp your finger just below the joint closest to the fingertip, and squeeze for 3 seconds.
7. Obtain blood sample. Use the Accu-Chek Softclix Lancing Device to obtain a drop on the side of your finger. Do not obtain the drop from the pad of your finger. To perform the test, obtain a small drop of blood resting on your finger.
8. ***Touch and hold drop of blood to the edge of the strip within the curve. Do not place the blood drop on top of the strip.***



The blood will be drawn into the strip automatically. If beeper is turned on, meter will beep to let you know the test is beginning. Hold your finger to the edge of the strip until the yellow window is completely filled with blood.

What if I still see yellow on the test strip?

- **If less than 15 seconds** have passed, a second drop of blood may be applied.
- **If more than 15 seconds** have passed, remove the strip and repeat test with a new strip.

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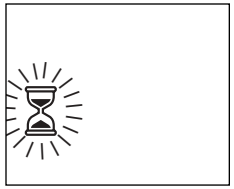
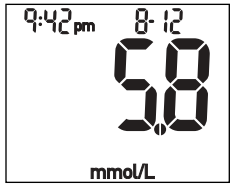
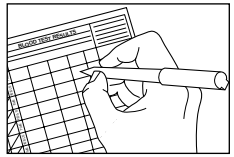
9. When blood is applied to strip, an hourglass flashes on the display until measurement is completed. Result appears.



10. The blood glucose result is displayed in mmol/L.



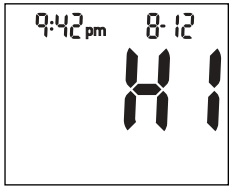
Your result is automatically recorded in the meter's memory. You may also want to record the glucose value in your Data Log.



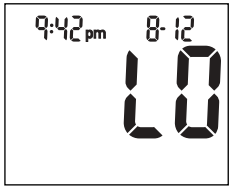
Note: For instructions on how to store a result in memory with a general flag (asterisk), refer to ***Marking a Result with a Flag, Asterisk (∗)*** on page 16.

11. Remove test strip from meter. Discard the strip and lancet in a puncture-proof container with a lid. If you have completed your testing, turn the meter OFF, or the meter will automatically turn off 5 seconds after removing the strip.

If HI is displayed, your blood glucose result may be higher than 33.3 mmol/L (refer to your test strip package insert or the section ***Understanding Your Test Results*** *on page 17)*.



If LO is displayed, your blood glucose result may be lower than 0.6 mmol/L (refer to your test strip package insert or the section ***Understanding Your Test Results*** *on page 17)*.



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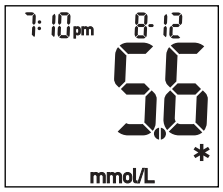
Marking a Result with a Flag, Asterisk (∗)

This feature allows you to perform a test and mark the result with a flag (asterisk) to be stored in memory. Each result flagged with the asterisk will have special meaning only to you. For your healthcare professional, you should record the meaning along with your reading in your Data Log. An example includes using the asterisk to mark a result taken immediately after a meal.

To mark a result with a flag (asterisk):

1. Perform blood glucose test and obtain result.
2. **While the strip is still in the meter,** press and release the right or left arrow button. An asterisk will appear on the lower right corner of the screen.



3. Remove the strip from the meter, turn the meter OFF, or the meter will automatically turn off 5 seconds after removing the strip. The result will be stored automatically with the asterisk in memory.

Understanding Your Test Results

If your blood glucose result seems unusually high, low, or inconsistent with your previous results or glucose trends and does not reflect the way you feel, check the following:

- Does the test strip number on the vial match the code number on the meter?
- Was the blood sample applied to the test strip within 3 minutes of removing it from the vial?
- Was the size of the blood sample sufficient?
- Was the test strip vial cap tightly sealed?
- Was the test strip used before the expiration date?
- Were the test strips stored at extreme temperatures such as in the car during very cold or hot weather?
- Were the test strips stored in areas of high humidity such as the kitchen or the bathroom?

Then run a quality control check with your glucose control solutions and a new test strip (see page 22, ***Quality Control Checks***). If the control result is within the acceptable range, review proper testing procedure and repeat your blood glucose test with a new test strip. If your blood glucose value is still inconsistent with your previous results, glucose trends, or how you feel, please contact your doctor. Follow the advice of your doctor before you change your therapy.

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Do's and Don'ts

DO:

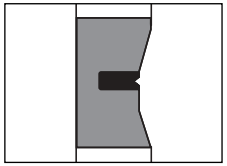
- **TIGHTLY REPLACE VIAL LID IMMEDIATELY AFTER REMOVING A TEST STRIP.**
- Make sure code number on meter matches code number on strip vial label.
- Keep meter clean.
- Store strips in the original vial.
- Ensure that your hands are dry when removing a strip from the vial.

DON'T:

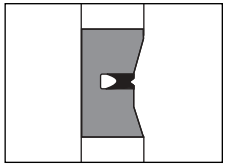
- Use expired test strips.
- Use code key from another blood glucose system.
- Store meter or strips in extreme temperatures.
- Store meter in damp or humid areas.
- Insert any object other than a test strip into strip slot.
- Remove or insert code key while meter is on.
- Test with meter placed on hot or cold surfaces.

Proper Test Strip Appearance

Although only a small amount of blood is needed, it is very important that you put enough blood on your test strip so that the entire yellow window is filled with blood. This ensures that your meter can produce accurate and reliable results.

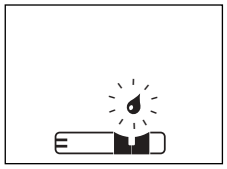


This strip has the correct amount of blood.

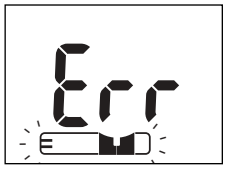


Notice that the left side of the yellow window is not completely filled with blood. This strip has too little blood and may produce an error message (or an inaccurate result).

Very small amounts of blood may give you an error message or an inaccurate result (see ***Error Messages*** on page 39). Repeat the test.



If this display remains after the blood drop is applied, then your drop was too small. Reapply a larger drop of blood.



This error display may appear at the end of the test and you will not get a blood glucose result. Remove test strip and retest with a new strip using a larger drop of blood.

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Using Memory

The meter automatically stores 480 glucose results, letting you review them in order from the most recent to the oldest. If you have set the time/date feature, the time and date of the results are also displayed. If time and date are not set, each result is marked with a number according to how it falls in sequence.

If the memory is full and a new result is added, the meter deletes the oldest result. Results stored in memory are not lost when you replace the battery. However, to retain the correct time and date settings, you must replace the battery before it is completely dead.

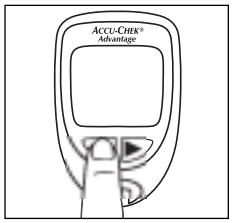
The Accu-Chek Advantage Meter also calculates 7, 14, and 30-day averages. You do not have to set the time and date for the meter to give you average calculations.

HI or LO results (results outside of the meter's reading range) and results marked as a control are not included in averages. If a HI or LO result is detected in memory, "7 day ave," "14 day ave," or "30 day ave" flashes on the display.

If you perform a control test without marking it as a control, it appears like a blood glucose result in memory. It will also be included in the 7, 14, and 30-day averages.

To recall results and averages stored in memory:

1. Press and release the right or left arrow button to enter memory recall mode. If a code key is installed, the code number appears briefly, followed by the most recent result stored in memory. If no code key is installed, code and "---" appear. Press and release the right or left arrow button again to enter memory recall mode.

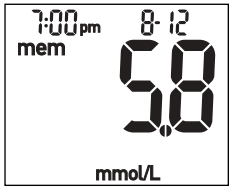


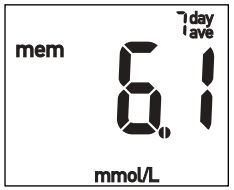
2. Once in the memory mode:

   Press the left arrow button to view individual results in memory,

   Or

   Press the right arrow button to review, in sequence, 7, 14, and 30-day averages.





   Note: Press and hold down the right or left arrow button to quickly scroll through results.

3. Turn meter OFF.

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Quality Control Checks

What are quality control checks?

They ensure that you are doing a test correctly and that your system is working properly.

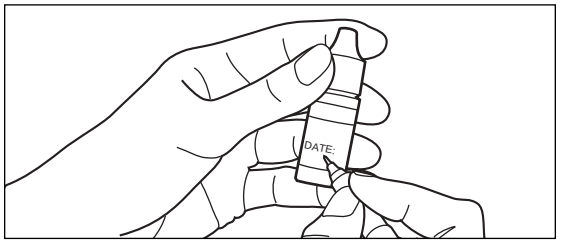
When should I check my meter?

- If you leave the cap off the vial of test strips.
- Before using your meter for the first time.
- When you open a new vial of test strips.
- If you drop the meter.
- Whenever your result does not agree with the way you feel.
- If you have repeated a test and the blood glucose result is still lower or higher than expected.
- When you want to check the performance of the meter and test strip.

To do a quality control check, you need:

- Accu-Chek® Advantage Glucose Control Solutions (Level 1 and Level 2)
- Accu-Chek® Advantage Test Strips

Note: When you open a new bottle of glucose control solution, write the date on the label. Opened bottles of glucose control solution are good for three months or until the expiration date, whichever comes first.



Important: Make sure you use the proper control solution for the test strips you have: Accu-Chek Advantage Test Strips require Accu-Chek Advantage Glucose Control Solutions.

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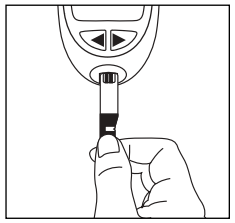
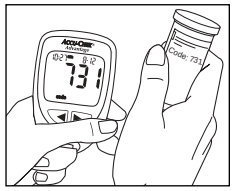
Performing a Quality Control Check

1. Open test strip vial and remove test strip. Replace vial cap.
2. Within 3 minutes, insert test strip (yellow window facing up) into test strip slot. The meter turns on automatically.



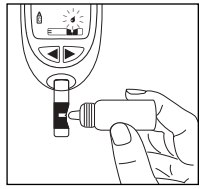
Check that the code number on the meter matches the code on the vial of test strips you are using. The test strip symbol stops flashing and a blood drop symbol appears on the display.



3. Press and release the right arrow button once to select a L1 (Level 1) control or twice to select a L2 (Level 2) control.

   Note: Results marked as L1 or L2 do not appear in memory or averages.

4. Hold the control bottle horizontally with the tip pointed directly at the right edge of the strip.

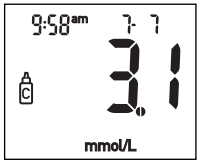


5. Gently squeeze the bottle to form one small drop.
6. Bring the drop to the edge of the strip within the curve, and allow the strip to automatically draw the solution into the yellow window until it is completely filled.

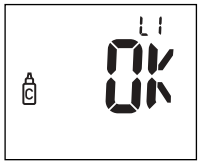
   An hourglass flashes in the display until the measurement is complete.

7. Tightly replace the cap on control solution.
8. The control result appears. If result is within the acceptable range (which is found on the side of the vial of strips), an icon of the control vial appears on the screen while the control test result and time and date (if set) alternate with “OK” and “L1” or “L2” on the display.

Example of an acceptable Level 1 control result.



and



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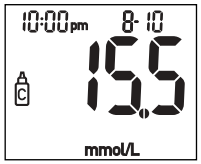
Note: Result must be marked with an L1 or L2 for the meter to verify if control result is within range. If result has not been marked with an L1 or L2, refer to your test strip vial label for the glucose control ranges.

If result is not within the acceptable range, an icon of the control vial appears on the screen while the control test result, and time and date (if set), alternate with "Err" and "L1" or "L2" on the display. See ***Understanding Control Results*** on page 27 for more information.

Example of an unacceptable Level 1 control result.



and

9. Remove test strip from meter and discard.

Note: Marking a test as "L1" or "L2" prevents the quality control result from taking up space in the meter's memory. If you do not mark the test as a control, the control result is stored in memory and included in averages.

Understanding Control Results

If your glucose control results are within the acceptable range, you can feel confident that your test strips and meter are working correctly.

If one or both of your glucose control results are outside of the acceptable range, your system may not be working properly. Check the following:

- Did you use control solutions or test strips that were past their expiration date?
- Did you leave the cap off the vial of test strips or glucose control solutions?
- Did the code in the meter match the code on the test strip vial label?
- Did you follow the testing steps exactly?
- Did you use the proper glucose control solution for the test strips you used?
- Did you select the appropriate control result level (L1 or L2)?

Repeat the glucose control test. If the result still is not acceptable, contact our Diabetes Care Info-Line:

MONTREAL: (450) 686-7100

TOLL-FREE: 1 800 363-7949

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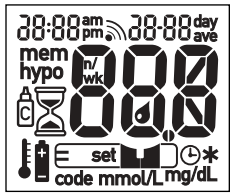
Caring For Your Meter

Display Check

This verifies that all parts of the display are working. Make sure the meter is off. Press and hold down the ON/OFF button. The display should look exactly like the picture at right. If it does not, call our Diabetes Care Info-Line.



Cleaning

Clean the outside of the meter, as needed, using a soft cloth that has been slightly dampened with one of the following:

- 70% alcohol
- a solution of mild dishwashing liquid and water
- 10% household bleach solution (1 part bleach in 9 parts water) made fresh daily
- Super Sani-wipes (ammonium chloride with alcohol)

Do not get moisture into the code key slot, test strip slot, or the serial port.

⚠ **Note to Healthcare Professionals: Follow the infection control procedures appropriate for your facility.**

Storage and Handling

Keep your meter free of dust. Protect it from extreme temperature and humidity, and handle it with care. If meter is dropped, perform a quality control check with the glucose control solutions before doing a blood glucose test.

The travel case is designed to let you store a variety of supplies you may need and helps to protect your meter.

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Note to Healthcare Professionals

Follow the infection control procedures appropriate for your facility. A drop of fresh, whole blood is required to perform a blood glucose test. Fresh venous, capillary, arterial or neonatal blood may be used. Caution should be taken to clear arterial lines before blood is drawn. Caution should be exercised in the interpretation of neonate blood glucose values below 2.8 mmol/L. Blood glucose determination with venous or arterial blood must be performed within 30 minutes of sample collection. Avoid air bubbles with the use of pipettes. Fresh venous blood specimens containing the anticoagulants EDTA or heparin are acceptable. Iodoacetate or flouride/oxalate are not recommended.

Note: For peritoneal dialysis patients

Peritoneal dialysis patients using dialysis solutions containing icodextrin may get overestimated blood glucose results when using the Accu-Chek Advantage Meter. These patients are advised to use the Accutrend GC Meter.

Transferring Data

The meter allows you to transfer all the data that you have stored in its memory to your computer so this information can be printed. It allows you to transfer data directly to your computer using a specialized software and interface cable.

For more information please contact your doctor or healthcare professional or call our Diabetes Care Info-Line:

MONTREAL: (450) 686-7100

TOLL-FREE: 1 800 363-7949

Consider the following when using accessory equipment:

⚠ Do not run a glucose test when the Accu-Chek Advantage Meter is connected to accessory equipment.

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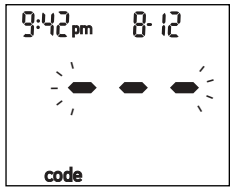
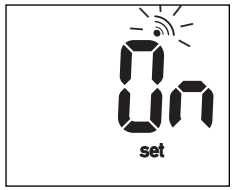
Quick Reference Display Guide

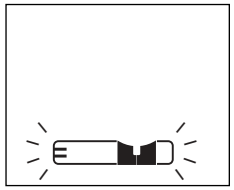
Meter needs to be coded, or code key is not inserted completely; turn meter OFF and insert code key (see page 9).



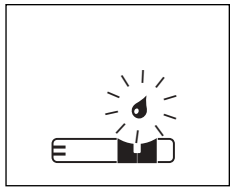
Meter is in the "set" function, allowing you to set the beeper, time, date, year, and hypo flag (see page 4).



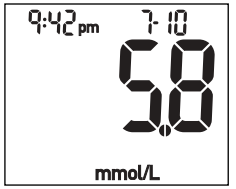
Meter is ready to accept a test strip.



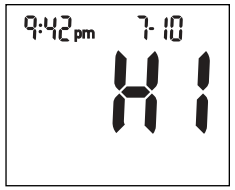
Blood drop can be applied to test strip (see page 12).



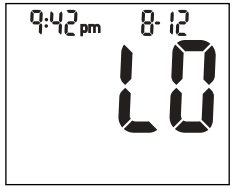
Blood glucose result appears on display (see page 14).



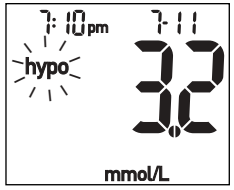
Blood glucose result may be higher than 33.3 mmol/L. If this does not confirm the way you feel, review proper testing procedure and perform a quality control check (page 22). Repeat test. **If HI still appears, follow your doctor's instructions.**



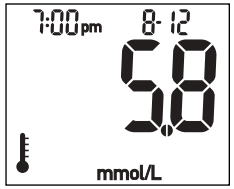
Blood glucose result may be lower than 0.6 mmol/L. If this does not confirm the way you feel, review proper testing procedure and perform a quality control check (page 22). Repeat test. **If LO still appears, follow your doctor's instructions.**



Blood glucose result is lower than hypo flag level set on meter (see page 8).



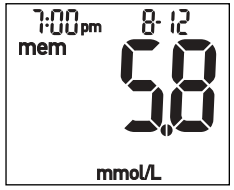
Temperature is above or below the operating range of test strips (14° to 40°C).



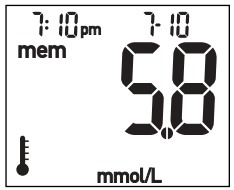
The result you have obtained may not be accurate. Move to an area between 14° and 40°C, wait 5 minutes, and repeat the test. Do not artificially heat or cool the meter.

Memory Displays

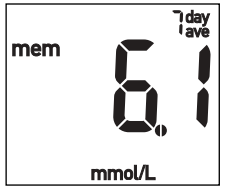
The meter is in the "memory" function, allowing you to recall results from memory (see page 20).



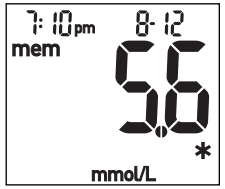
If you are reviewing memory and a result appears with a temperature symbol as shown, this result may not be accurate because the test was performed outside the operating range of the test strips (14° to 40°C).



The meter is in the "memory" function, allowing you to recall 7, 14, and 30-day averages.



This blood glucose result was marked with a result marker flag (asterisk) (see page 16).



⚠ **Do not use individual values stored in memory to make therapy adjustments.**

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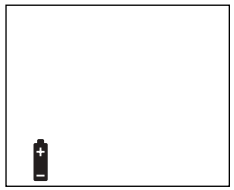
Display Messages

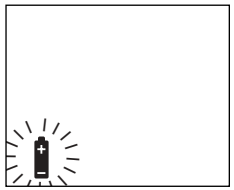
Battery Displays

Battery power is low. Change battery soon.



(battery symbol not flashing)

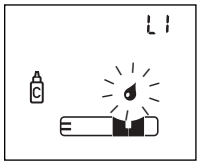
Battery is dead. Change battery now. Meter will turn off after 3 seconds.



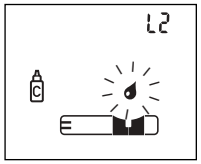
(flashing battery symbol)

Quality Control Check Displays

Meter is ready for a Level 1 or Level 2 glucose control check. Apply a drop of Level 1 or Level 2 glucose control solution.



or



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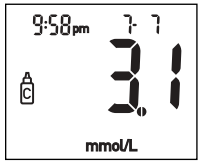
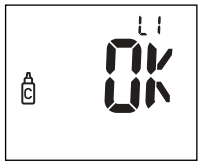
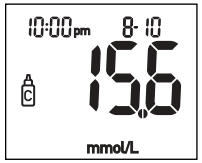
Example of an acceptable control result.



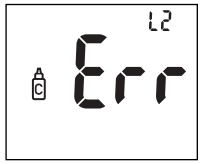
and



Example of an unacceptable control result.



and



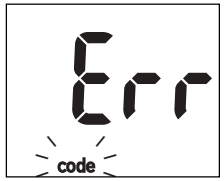
Glucose control result is not acceptable. Repeat test. Refer to ***Understanding Control Results*** (see page 27).

Error Messages

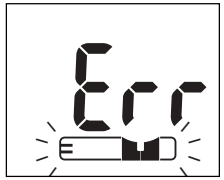
The meter automatically performs a system check to prevent inaccurate results. If the meter detects a malfunction, it displays the “Err” message and an appropriate symbol.

Do not make treatment decisions based on an error message.

The code key is faulty, or the code key was removed while the meter was on. Turn meter OFF and re-insert code key. If this error display still appears, contact our Diabetes Care Info-Line.



Test strip may be damaged or test was not performed correctly. If this display appears ***before*** blood is placed on strip, remove test strip and reinsert. If this display appears ***after*** blood is applied to the strip, there is an incorrect amount of blood on the strip. Repeat the test with a new test strip.



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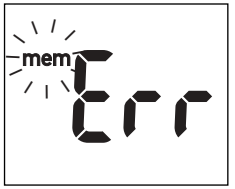
Your blood glucose result may be extremely high and above the system's reading range. If this confirms the way you feel, **contact your doctor immediately.**

If this does not confirm the way you feel, run a quality control check with your glucose control solutions and a new test strip. If the control result is within the acceptable range, review the proper testing procedure and repeat your blood glucose test with a new test strip.

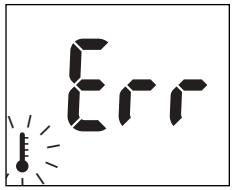
If **mmol/L error** still appears for your blood glucose test, your blood glucose result may be extremely high and above the system's reading range. **Contact your doctor immediately.**

If the control result is not within the acceptable range, refer to ***Understanding Control Results*** (see page 27).

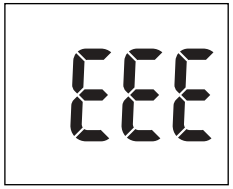
Meter has detected the loss of all results in memory. Turn meter OFF and turn it back ON again. You may not be able to recall the results previously stored in memory, although your meter will store any future test results.



Temperature is above or below the operating range of the meter. Move to an area between 14° and 40°C, wait 5 minutes, and perform a test. Do not artificially heat or cool the meter.



Meter has failed its series of electronic checks. Turn meter OFF, then ON again. If this error display still appears, testing cannot take place. Call our Diabetes Care Info-Line.



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Technical Data

Please read information packaged with test strips regarding up to date product specifications and limitations.

Measuring Principle: The glucose dehydrogenase converts the glucose in a blood sample to gluconolactone. This reaction liberates an electron that reacts with a coenzyme electron acceptor, the oxidized form of the mediator hexacyanoferrate (III), forming the reduced form of the mediator, hexacyanoferrate (II). The test strip employs the electromechanical principle of biamperometry. The monitor applies a voltage between two identical electrodes, which causes the reduced mediator formed during the incubation period to be reconverted to an oxidized mediator. This generates a small current that is read by the monitor. The meter detects electrical current change and with the aid of the code key, converts the signal obtained into a displayed reading.

Product Specifications

Meter Storage Conditions	-25° to 70°C <85% humidity ≥53.3 kPa atmospheric pressure
System Operating Conditions	Refer to your test strip package insert for more information
Measuring Range	Refer to your test strip package insert for more information
Memory Capacity	480 blood glucose results with time and date
Display	LCD display
Blood Volume	Refer to your test strip package insert for more information
Size	3.3” x 2.2” x .8” (84 mm x 56 mm x 20 mm)
Weight	1.8 oz (57 g)
Accuracy	Refer to your test strip package insert for more information
Precision	Refer to your test strip package insert for more information
Sample Types	Capillary, venous, arterial, and neonatal (including cord) blood

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Power Supply	One 3-volt lithium battery type 2032 (CR 2032, DL 2032 or equivalent)
Data Port	3-wire RS-232C Serial Port Multiplexed TTL UART
Test Strip Storage Conditions	Refer to your test strip package insert for more information
Construction	Hand-held
Protection Class	III
Rated Operation	Continuous operation

Product Safety Information

Explanation of symbols

⚠ CAUTION Refer to accompanying documents.

3V type 2032

c UL us LISTED Laboratory Use Electrical Equipment 8C79 Listed by Underwriter's Laboratories, Inc.® in accordance with UL 61010A-1 and CAN/CSA C22.2 No. 1010-1.

CE 0088 This product fulfills the requirements of Directive 98/79/EC on *in vitro* diagnostic medical devices.

IVD For *in vitro* diagnostic use. Do not ingest!

Manufactured by

This meter is suitable for continuous operation. Meter is not protected against infiltration of water. Meter is not suitable for use in the presence of flammable anesthetic mixture with air, oxygen, or nitrous oxide.

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Warranty and Service Instructions

Roche Diagnostics warrants the meter against any material and manufacturing defects that may arise during proper use of the instrument. For precise terms and conditions please see the Warranty Card in the box.

This warranty does not affect any statutory or other rights.

The warranty ceases to apply if the instrument has been misused or tampered with.

Roche undertakes to replace faulty components free of charge or, at their discretion, to provide a fault-free replacement meter.

Statutory and other rights: This manufacturer's warranty is in addition to any statutory or other rights which may be acquired by the customer through his dealings with the instrument supplier.

The statutory guarantee provisions governing the sale of consumer goods in the country of purchase shall prevail.

Be sure to fill out the warranty form that came with your system and return to Roche Diagnostics.

Supplies and Accessories

The following supplies and accessories are available from your local pharmacy.

Accu-Chek Advantage Test Strips

Accu-Chek Advantage Glucose Control Solutions

Accu-Chek Softclix Lancets

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Addendum A

Using the Accu-Chek Softclix Lancing Device

To make it easier to obtain the blood sample required for testing with the Accu-Chek® Advantage Meter, we recommend using the Accu-Chek® Softclix Lancing Device.

The lancing device has been specially designed to allow the user to obtain a single drop of blood from the tip of the finger (or earlobe) easily and virtually painlessly.

Selecting the Depth of Penetration

With the Accu-Chek Softclix Lancing Device, the degree of penetration can be selected to accommodate any skin type in order to obtain precisely the amount of blood necessary. The lancing device offers 11 options for this purpose, indicated on the cap by the numbers 1 through 5 (and half-positions). To select the desired depth, turn the number dial to the preferred setting. It will snap into position.

Select 1 for the least and 5 for the greatest penetration. When selecting the degree of penetration for the first time, begin with level 1 to see if it delivers enough blood; the thicker the skin, the higher the level required to complete the test successfully.

Note: Only Accu-Chek Softclix lancets are compatible with your Softclix Lancing Device. The lancets are manufactured accurately so that the degree of penetration selected remains unchanged when a new lancet is inserted.

Preparing and Treating the Fingertip

To ensure getting a sufficient amount of blood, warm fingertips by washing hands in warm water. Dry thoroughly. Let your arm hang down at your side briefly to allow blood to flow to your fingertips. Massage finger before pricking. Grasp your finger just below the joint closest to the fingertip, and squeeze for three seconds. The best place to prick is the side of the finger as it has the best blood supply and registers the least pain.

Instructions for Use of the Accu-Chek Softclix Lancing Device

1. Pull off the Softclix device cap.

2. Insert a new Accu-Chek Softclix Lancet in the lancet holder and push it in until it clicks.

Remove the protective cap from the lancet with a twisting motion.

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To avoid injuries, keep cap and replace on lancet before discarding. Use a new lancet each time you take blood to prevent infection and to ensure virtually pain-free blood sampling.

3. Press the Accu-Chek Softclix Lancing Device cap on again until it clicks.

Be sure to align the notch on the cap with the centre of the semicircular cutout on the ejector.

4. Rotate the Comfort Dial on the Accu-Chek Softclix Lancing Device cap to set the penetration depth.

If you are using the Accu-Chek Softclix Lancing Device for the first time, set the Comfort Dial to 1. For thicker or calloused skin, select a higher setting.

5. Press in the priming button until it clicks. Be careful not to press the release button at the same time.

The lancing device is primed when a yellow dot appears in the transparent release button. Do not prime the Softclix Lancing Device until you are ready to take blood.

6. Gently press the Accu-Chek Softclix Lancing Device against the fingertip or earlobe and press the release button.

Take care not to push against the priming button or to impede its free movement. Wait a few seconds to allow a droplet of blood to form.

To obtain a hanging drop of blood, turn hand over so puncture site faces down. If a drop does not form, gently massage the finger until a hanging drop is obtained. Apply the blood to the test strip (see pages 11-15, **Performing a Test**). If you do not obtain sufficient blood, try the test again with progressively deeper settings.

After obtaining the blood sample, wipe the puncture site with a dry, clean paper towel. If necessary, gently press the towel onto the site and, if bleeding persists, cover with a bandage.

7. To remove the lancet, remove the Softclix cap and slide the ejector forward.

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Place the protective cap back on the lancet and slide the ejector forward to release the lancet. Dispose of lancet in a safe container (a coffee can with a slot in the cover, for instance).

Please exercise care when removing the cap and ejecting a used lancet from the Accu-Chek Softclix Lancing Device. Pull the cap off as shown. Use this procedure to ensure that fingers cannot slip off while removing the cap from the device.

⚠ **Important note for Healthcare Professionals:**
If handling devices returned after use by patients, please ensure that the patient has removed the used lancet from the Accu-Chek Softclix Lancing Device prior to handling the device. The Softclix Lancing Device is intended only for the particular purpose of self blood glucose monitoring. If you require a lancing device suitable for multitesting, please use the Accu-Chek® Softclix® Pro Lancing Device.

Living with Diabetes

Assessing Your Blood Sugar Levels
Once your doctor has determined your ideal blood sugar levels, the correct, regular use of your Accu-Chek System will help you take control of your diabetes. Meanwhile, learn how to spot and respond to your body's warning signs that your glucose levels may be less than ideal:

What's Normal?
The fasting adult blood glucose range for a person without diabetes is between 3.9 mmol/L and 6.1 mmol/L[1] (plasma values). Two hours after meals, the blood glucose level is less than 7.8 mmol/L or 140 mg/dL.[2] Your diabetes team will determine the appropriate blood glucose target range that is appropriate for you.

High blood sugar (hyperglycemia):

If you experience:
- unusual thirst
- frequent urination
- fatigue and weakness
- blurred vision
- rapid weight loss
- skin infections

What to do:
- drink water
- follow your meal plan
- take your medication as recommended

Consult your doctor if you are unsure what to do.

Low blood sugar (hypoglycemia):

If you experience:
- hunger, sweating
- shaky, nervous feeling
- headache, dizziness
- mood changes

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- fatigue and weakness
- blurred vision
- in extreme cases, unconsciousness†

What to do:

- Eat or drink fast-acting sugar such as: 3 dextrose tablets or 1/2 cup juice or regular soft drink or 2 or 3 hard candies

Consult your doctor if you are unsure what to do.

Note: Some symptoms of high and low blood sugar are the same. Your Accu-Chek Advantage Blood Glucose Meter will help you determine your blood sugar levels.

† An unconscious person should not be given anything to swallow. Get immediate medical attention.

Tips for Lowering Blood Sugar Levels

Anything you can do to lower your blood sugar levels may help reduce your risk of diabetic complications.

1. Perfect your use of the Accu-Chek Blood Glucose Monitoring System and test your blood sugar levels regularly.
2. Drink plenty of water.
3. Avoid fruit juices, alcohol, and soft drinks that contain sugar.
4. Eat balanced, healthy meals comprising a variety of foods (at least three of the four key food groups: grain products, vegetables and fruits, milk products, meat and alternates); preferably small meals at regular times. Ask your dietitian about optimum portion sizes.
5. Avoid high-fat and/or fried foods. Avoid excessive salt, by limiting both processed foods, and salt added while cooking and at the table.
6. If you are overweight, try to lose weight. Gradually losing 2.25 to 4.5 kg (5 –10 lbs.) can substantially reduce your blood sugar levels.
7. Take your diabetes medication according to your doctor's instructions.
8. Get plenty of exercise. In addition to making you feel good about yourself, exercise increases muscle tone and strength, improves circulation, reduces stress, and helps you maintain a healthy body weight. Exercise also helps to lower blood sugar levels. (To learn how exercise affects you, test your blood sugar before and after you exercise.)

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Travel Tips

When traveling, we suggest you take the following precautions:

1. Ahead of departure, check on availability of medical care and of insulin/pills, syringes, etc. in the country you are visiting. Carry prescriptions for these with you at all times.
2. Consult your healthcare professional about how to adapt your medication to time zone changes.
3. Take extra insulin/pills along with you.
4. Carry insulin/pills in a case to protect from damage, and avoid the hazards of theft or loss by keeping two separate cases.
5. Carry food (e.g., cheese, fruit) with you at all times.
6. Record any changes in how you feel and the results of your glucose monitoring in order to assess how travel affects you.
7. Always carry something that identifies you as having diabetes.
8. Always carry candy or fast-acting sugar.

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Any Questions

We want to give you the help you need for long and reliable service of your meter.

Review your test procedure and make sure that you are performing the steps correctly. If you still have questions, please contact our Diabetes Care Info-Line:

MONTREAL: (450) 686-7100

TOLL-FREE: 1 800 363-7949

Roche Diagnostics
201, Boul. Armand-Frappier
Laval, Quebec, H7V 4A2

References

1. Stedman, Thomas Lathrop. *Stedman's Medical Dictionary, 27th* Edition, 1999, pg. 755.
2. American Diabetes Association, "Clinical Practice Recommendations 2003." *Diabetes Care*, Vol 26, Supplement 1, pg. S22.

Except where prohibited by law, all warranties covering the Accu-Chek Advantage system are voided by use of the Accu-Chek Advantage system with any test strip other than an Accu-Chek Advantage or Advantage Comfort Test Strip.

This product is covered by one or more of the following patents: Canadian Patent Nos. 2,068,214; 2,068,215; 2,068,219; 2,153,877; 2,153,878; 2,153,883; 2,153,884; 2,175,501; 2,010,400; 2069946 and 1307485. Patent No. 1307485 is licensed from Quadrant Holdings Cambridge Limited.

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